INITIAL SCOPING LETTER

PEDESTRIAN SCHOOL SAFETY ZONE TRANSPORTATION ENHANCEMENT PROJECT

PHASE I: PEDESTRIAN COUNT DOWN SIGNAL HEADS

SUBMITTED: JUNE 2004 CITY OF PHOENIX CIP NO: ST89320051 FEDERAL AID PROJECT NUMBER: TRACS NUMBER:

Initial Scoping Letter City of Phoenix Pedestrian School Safety Project Phase I: Pedestrian Countdown Signal Heads

I. INTRODUCTION

The purpose of this project is to improve pedestrian and pedacyclist safety in and around school zones in the City of Phoenix. The total project costs are estimated at \$665,000 with \$500,000 in ADOT and approximately \$165,000 in City of Phoenix funds. The project was designed to apply a mix of treatments including pedestrian refuge islands, pedestrian countdown signal heads and other pedestrian traffic enhancing treatments to Phoenix school routes. Do to the differences in the environmental, cultural and budgetary aspects of all three treatments; the project has been separated into two phases. Phase I addresses the addition of pedestrian countdown signal heads and phase II will address all other treatments.

This scoping letter covers Phase I, the purchase and installation of 52 sets of pedestrian countdown signal heads (figure 1) at different arterial/collector intersections at or near school zones within the City. The estimated cost of this phase of the project will be \$104,000 which is based on the purchase and installation cost estimate of \$2000 per set of signal heads.

Once purchased, City of Phoenix Traffic Signal Shop work crews will install the signal heads to existing traffic signal poles and electrical wiring. This arrangement should eliminate any cultural and environmental impact of this Phase of the program. Because of the minimal cultural and environmental impact of this Phase, it is anticipated that construction will commence as soon as funds become available.

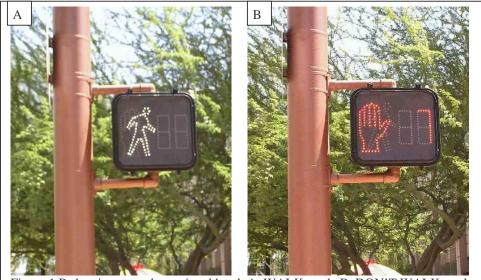


Figure 1 Pedestrian countdown signal head. A. WALK mode B. DON'T WALK mode with countdown clock

II. BACKGROUND DATA

A. Project Area

The City of Phoenix is a leader in pedestrian school safety. As part of our continuing effort to upgrade school pedestrian facilities, we applied for and were awarded a grant for a program known as the Pedestrian School Safety Zone Project which is being developed to improve the safety of pedestrian routes to school. This project was developed in conjunction with our School Safety Taskforce and represents a continuation of our efforts at improving safety and access to learning for City school children. This specific portion of the project dealing with pedestrian countdown signal heads was developed to provide additional visual information to assist students crossing within marked crosswalks on arterial streets near or at school zones. The additional information will be delivered in the form of a visual countdown of the time remaining in the green cycle on the standard WALK/DON'T WALK signal face. It is intended that this will assist school children in decision making on when to enter the crosswalk and how quickly to exit the crosswalk.

III. PROJECT SCOPE

The countdown signal heads called for in this project are intended for use at traffic signal controlled crosswalks at 28 elementary, middle and high school locations Citywide (see table 1 and vicinity map). It is anticipated that as funds become available, all 52 sets of signal heads will be purchased and once received, work crews will begin immediate installation. There will be no specific plans for each location however the position and installation of individual signal heads on existing traffic signal poles will be similar to the figure in the typical section sketch and will be carried out in accordance with current ADOT and Manual on Uniform Traffic Control Devices (MUTCD) guidelines.

Due to the nature of this phase of the project, ADOT will not be asked for any assistance other than initial funding assistance.

IV. PROJECT DEVELOPMENT CONCIDERATIONS

All of the pedestrian countdown signal heads purchased under this grant will be installed on existing traffic signal poles and wired into the existing traffic signal power grid. There will be no requirements for any ground disturbance (e.g. digging or trenching) or disruption of the natural environment at the installation site. As a result, there should be no adverse environmental aspects of the installation.

V. ESTIMATED COST

The signal heads and installation will be paid for through a combination of Arizona Department of Transportation (ADOT) Transportation Enhancement Program (Round 11) Grant (\$98,000) and approximately 5.8% matching City of Phoenix construction funds (\$6,000).

VI. ITEMIZED COST ESTIMATE

The current cost estimate based on unit and installation pricing and current known conditions is as follows:

<u>Item</u>	Quantity	<u>Unit Price</u>	Total Amount
Design Costs	None	NA	NA
Right of Way Acquisition	None	NA	NA
Utility Relocation	None	NA	NA
Unit Price	52/pair	\$800/pair	\$41,600
Installation (electrical)	52/pair	\$1200/pair	\$62,400
Construction Administration	None	NA	NA
Contingencies	None	NA	NA
		Total	\$104,000

VII. VICINITY MAP

See attached figure

VIII. TYPICAL SECTION SKETCH

See attached figure

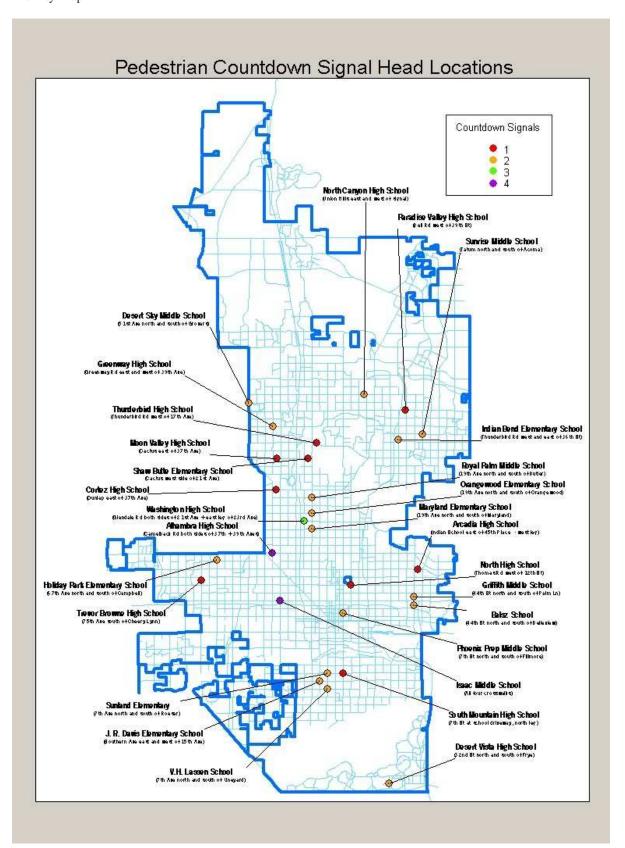
IX. SCHEDULE

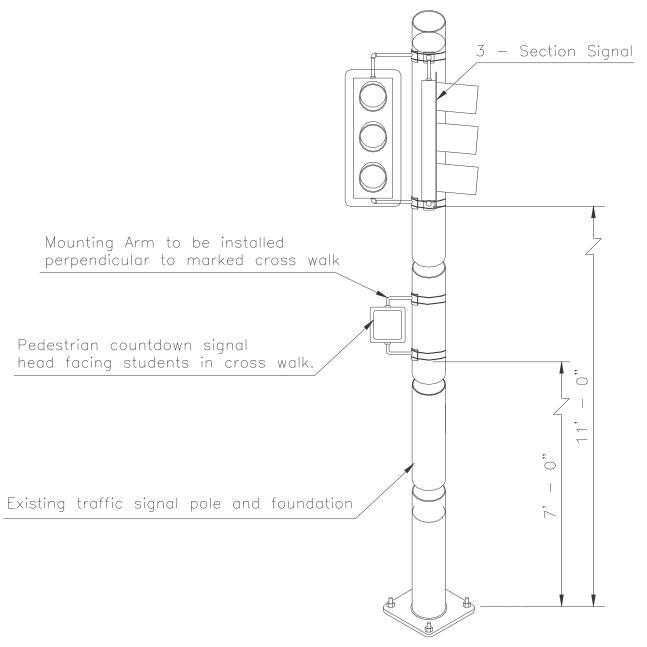
The exact schedule is to be determined based on availability of funds however, it is anticipated that once funding becomes available, the project should proceed rapidly and should take no more than eight months to complete.

X. 15% PLANS

Due to the nature of this phase of the project, no individual sight plans will be prepared for this project.

Trevor Browne Cheery Lynn & 75th Ave 1 75th A Cortez High School Dunlap & 37th Ave 1 Dunla Isaac Middle School McDowell & 35th Ave 4 All for Holiday Park Elem. School Campbell & 67th Ave 2 67th A Sunland Elementary School 7th Ave & Roeser 2 7th A	ew Signal Head Location Ave south of Cheery Lynn ap east of 37th Ave ur crosswalks Ave north and south of Campbell ve north and south of Roeser St north and south of Belleview St north and south of Palm Ln
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Sunland Elementary School 7th Ave & Roeser 2 7th A	ve north and south of Roeser St north and south of Belleview
·	St north and south of Belleview
Balsz School Belleview & 44th St 2 44th S	
	St north and south of Palm Ln
Griffith Middle School Palm Ln & 44th St 2 44th St	
Moon Valley High School Cactus & 37th Ave 1 Cactu	us east of 37th Ave
I Washington High School	dale Rd both sides of 21st Ave & eg of 23rd Ave
Alhambra High School Camelback at 37th & 39th Aves 4 Camelback at 37th & 39th Aves	elback Rd both sides of 37th & 39th
Shaw Butte Elem. School Cactus & 21st Ave 1 Cactu	us west side of 21st Ave
Phoenix Prep Middle School Fillmore & 7th St. 2 7th S	t north and south of Fillmore
Sunrise Middle School Tatum & Acoma 2 Tatum	n north and south of Acoma
North High School Thomas Rd & 12th St 1 Thom	nas Rd west of 12th St
South Mountain High School 7th St 350' north of Sunland 1 7th S	t at school driveway, north leg
Desert Vista High School Fry & 32nd St (N/S legs) 2 32nd	St north and south of Frye
Greenway High School Greenway & 39th Ave 2 Green	nway Rd east and west of 39th Ave
V.H. Lassen School 7th Ave & Vineyard 2 7th A	ve north and south of Vineyard
Orangewood Elem. School 19th Ave & Orangewood 2 19th A	Ave north and south of Orangewood
Maryland Elementary School 19th Ave & Maryland 2 19th	Ave north and south of Maryland
Royal Palm Middle School 19th Ave & Butler 2 19th A	Ave north and south of Butler
I Arcadia Hidh School I Indian School gact of Abin Pi I I I	n School east of 45th Place - west school driveway)
J. R. Davis Elementary Southern & 15th Ave 2 South	nern Ave east and west of 15th Ave
Thunderbird High School Thunderbird & 17th Ave 1 Thunderbird & drives	derbird Rd west of 17th Ave (school way)
Paradise Valley High School 3950 E. Bell Rd 1 Bell F	Rd west of 39th St. (school driveway)
Indian Bend Elem. School Thunderbird & 36th St 2 Thunderbird	derbird Rd west & east of 36th St
	n Hills east and west of signal ool driveway)
Desert Sky Middle School Grovers & 51st Ave 2 51st /	





STANDARD PEDESTRIAN COUNTDOWN
SIGNAL HEAD MOUNTING DETAIL
(NO SCALE)